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July 24, 1997

**BY HAND DELIVERY**

Mr. William F. Caton  
Acting Secretary  
Federal Communications Commission  
1919 M Street, N.W., Room 222  
Washington, D.C, 20554

Re: DIRECTV ENTERPRISES, INC.  
Docket No. 97-99  
Notice of Ex Parte Presentation

Dear Mr. Caton:

Pursuant to Section 1.1206(a)(2) of the Commission's rules, DIRECTV Enterprises, Inc. ("DIRECTV") hereby submits this notice of an ex parte presentation.

On July 23, representatives of DIRECTV met with Commission representatives to discuss DIRECTV's petition for reconsideration filed in the above-referenced proceeding. The enclosed materials were distributed and, along with DIRECTV's filings in this proceeding, formed the basis for the discussions.

DIRECTV was represented by Merrill S. Spiegel of Hughes Electronics, David Pattillo and Jim Butterworth of DIRECTV, and the undersigned. The Wireless Telecommunications Bureau was represented by John Cimko, Ron Netro, Steve Weingarten, David Wye and Tom Stanley. The International Bureau was represented by Steve Sharkey, Karl Kensinger, Kim Baum and Chris Murphy.

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Copies of this Notice of Ex Parte Presentation have been provided to the Commission representatives identified above. An original and one copy are enclosed.

Respectfully submitted,



John P. Janka

Enclosures

cc (w/enc.): Kim Baum  
John Cimko  
Karl Kensinger  
Chris Murphy  
Ron Netro  
Steve Sharkey  
Tom Stanley  
Steve Weingarten  
David Wye

**Presentation to the Federal Communications  
Commission**

**New BSS  
Direct-to-Home Service**

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**DIRECTV™**

July 23, 1997

# ***Request for New BSS Allocations***



- Additional spectrum needed for expanding BSS service
- 17.3-17.8 GHz downlink is available for “next-generation” BSS systems
  - “Reverse band” operations possible with existing BSS uplinks
  - Band is suitable for service to small antennas (18”)
  - Band supports expanded service at existing BSS locations and ability to use additional orbit locations
- 24.75-25.25 GHz available for BSS uplinks under existing ITU allocations
- Orbital spacing of 4.5 degrees is possible with 18” antennas

# ***Public Interest Benefits of New Allocations***



- Increased competition with cable industry
- Provision to consumers of new programming and services
  - innovative entertainment, educational and informational programming
  - distance-learning and training applications
  - Internet-like "multimedia"
- Outlet for high definition (ATSC) BSS transmissions
- Supports technological innovation
- Creates jobs with content providers, BSS operators and equipment manufacturers

# ***DIRECTV Expansion System Overview***

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- Application for six spacecraft at three locations
  - 101 W, 105.5 W, 96.5 W
- First spacecraft to be deployed as soon as 2000
- Significant expansion of existing system capacity

# ***DIRECTV Filings***



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- Rulemaking Petition to allocate 17.3-17.8 GHz (downlink) and 24.75-25.25 GHz (uplink) for BSS service
  - Application for expansion BSS system at 101 W, 105.5 W, and 96.5 W
  - Petition for Reconsideration of DEMS relocation to 24.75-25.25 GHz

# *Rulemaking Petition Overview*



- Request to implement results of WARC-92 for Region 2
  - 17.3-17.8 GHz allocated for BSS downlinks
    - band is “unplanned” in downlink direction
    - “reverse band” use of current BSS uplink bands
  - 24.75-25.25 GHz allocated for FSS uplinks, primarily to BSS systems
- Request for 4.5 degree spacing instead of current 9 degree spacing for BSS
  - no spacing constraints at ITU for proposed use of bands
  - more than doubles available BSS capacity for US service
  - allows service to 18” antennas

# ***Rulemaking Petition Considerations***



- Implementing BSS at 17.3-17.8 GHz before 2007
  - terrestrial service at 17.7-17.8 GHz will be protected
  - coordination at 17.7-17.8 GHz with Canada and Mexico
  - coordination with BSS uplinks in the band
- FSS downlinks at 17.7-17.8 GHz
  - sufficient alternate FSS bandwidth available at 17.8-18.8 GHz
- 4.5 degree orbital spacing
- DEMS interference potential in 24.75-25.25 GHz uplink band
  - insufficient information for complete analysis at this time

# *Summary*



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- DIRECTV needs additional bandwidth to expand its existing service and provide innovative new services
  - New BSS bands provide most suitable location for new capacity
  - Reduced orbital spacing facilitates increased competition
  - Proposal is consistent with international allocations
  - No significant interference issues, other than potential DEMS issues